

**BRUHAT BENGALURU MAHANAGARA PALIKE**  
**YELAHANKA ZONE**

**NAME OF WORK : ESTIMATE FOR IMPROVEMENTS AND ASPHALTING TO ROADS AT VENKATALA SERVICE STATION ROAD AND SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB-DIVISION**

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |     | Estimate Cost Rs. |      |      |        | 2000000.00 |           |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-------------------|------|------|--------|------------|-----------|
| Sl. No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Unit    | No. | L                 | B    | D    | Qty.   | Rate       | Amount    |
| 1       | KSRB 2-2.1 : <b>Earth work excavation</b> for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in <b>ordinary soil</b> not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3) |         |     |                   |      |      |        |            |           |
|         | venkatala                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cum     |     |                   |      |      |        |            |           |
|         | 2nd Main Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | 1   | 58.30             | 1.00 | 0.95 | 55.39  |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 1   | 73.80             | 1.00 | 1.30 | 95.94  |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 1   | 26.00             | 1.00 | 1.50 | 39.00  |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 1   | 13.00             | 1.00 | 1.70 | 22.10  |            |           |
|         | for culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | 1   | 5.00              | 1.65 | 1.50 | 12.38  |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |     |                   |      |      | 224.80 | 200.34     | 45036.43  |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 189.00  |     |                   |      |      |        |            |           |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11.34   |     |                   |      |      |        |            |           |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 200.34  |     |                   |      |      |        |            |           |
| 2       | KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.2 (P.12/I.4.3)                                    |         |     |                   |      |      |        |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cum     |     |                   |      |      |        |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cum     |     |                   |      |      |        |            |           |
|         | for drain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | 1   | 171.10            | 1.00 | 0.15 | 25.67  |            |           |
|         | for culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | 1   | 5.00              | 1.65 | 0.15 | 1.24   |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |     |                   |      |      | 26.90  | 5159.02    | 138790.54 |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4867.00 |     |                   |      |      |        |            |           |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 292.02  |     |                   |      |      |        |            |           |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5159.02 |     |                   |      |      |        |            |           |
| 3       | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31 )                                                                                                                                                             |         |     |                   |      |      |        |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sqm     |     |                   |      |      |        |            |           |
|         | for drain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | 2x2 | 58.30             |      | 0.60 | 139.92 |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 2x2 | 73.80             |      | 0.90 | 265.68 |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 2x2 | 26.00             |      | 1.20 | 124.80 |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 2x2 | 13.00             |      | 1.50 | 78.00  |            |           |
|         | for culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | 2x2 | 5.00              |      | 1.20 | 24.00  |            |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |     |                   |      |      | 632.40 | 310.58     | 196410.79 |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 293.00  |     |                   |      |      |        |            |           |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17.58   |     |                   |      |      |        |            |           |

| Sl. No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit                       | No. | L      | B    | D    | Qty.          | Rate           | Amount           |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|--------|------|------|---------------|----------------|------------------|
|         | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>310.58</b>              |     |        |      |      |               |                |                  |
| 4       | Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal, coarse aggregated @ 0.69cum, and fine aggregated @ 0.460cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, bed blocks, anchor blocks, plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. specifications No.KBS 4.1,4.6 (P.No.13/ (No.4.11) |                            |     |        |      |      |               |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cum                        |     |        |      |      |               |                |                  |
|         | bed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | 1   | 158.10 | 1.00 | 0.15 | 23.72         |                |                  |
|         | for drain side wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | 2   | 58.30  | 0.15 | 0.60 | 10.49         |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | 2   | 73.80  | 0.15 | 0.90 | 19.93         |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | 2   | 26.00  | 0.15 | 1.20 | 9.36          |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | 2   | 13.00  | 0.15 | 1.50 | 5.85          |                |                  |
|         | for culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | 1   | 5.00   | 1.65 | 0.20 | 1.65          |                |                  |
|         | side wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | 2   | 5.00   | 0.30 | 1.20 | 3.60          |                |                  |
|         | deck slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | 1   | 5.00   | 1.50 | 0.23 | 1.73          |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |     |        |      |      | <b>76.32</b>  | <b>6371.66</b> | <b>486285.09</b> |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6011.00                    |     |        |      |      |               |                |                  |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 360.66                     |     |        |      |      |               |                |                  |
|         | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>6371.66</b>             |     |        |      |      |               |                |                  |
| 5       | KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do-TMT Bars Fe 500 P.17/lt No.4.46.2                                                                                                                                                                                                                                                                                                          |                            |     |        |      |      |               |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | tonne                      |     |        |      |      |               |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60% of Qty Vide Item No.12 |     |        |      |      | in Qtl        | 45.7920        |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |     |        |      |      | in tonne      | <b>4.5792</b>  | <b>59413.00</b>  |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56050.00                   |     |        |      |      |               |                |                  |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3363.00                    |     |        |      |      |               |                |                  |
|         | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>59413.00</b>            |     |        |      |      |               |                |                  |
| 6       | Providing and fixing <b>RCC precast Slabs</b> of 0.10 m thick of CC 1:2:4 with 20 mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |     |        |      |      |               |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sqm                        |     |        |      |      |               |                |                  |
|         | for Drain covering slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 1   | 158.10 | 0.75 |      | 118.58        |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |     |        |      |      | <b>118.58</b> | <b>2100.00</b> | <b>249007.50</b> |
|         | Data Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2100.00                    |     |        |      |      |               |                |                  |
| 7       | S.29(b) Providing and fixing <b>pre cast solid cement concrete kerb stones</b> made out of No.272.21 C.C 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc. complete (P.No.25 /lt.No.5.30)                                                                                                                                                                                                                                                                                                                                                               |                            |     |        |      |      |               |                |                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                         |     |        |      |      |               |                |                  |

| Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit          | No. | L      | B    | D                     | Qty.   | Rate   | Amount    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|--------|------|-----------------------|--------|--------|-----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | 1   | 158.10 |      | <u>125.00</u><br>0.45 | 351.33 |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |     |        |      | Say                   | 350.00 | 331.78 | 116123.00 |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 313.00        |     |        |      |                       |        |        |           |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18.78         |     |        |      |                       |        |        |           |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>331.78</b> |     |        |      |                       |        |        |           |
| 8 KSRB 15-19.2 :Providing and applying ready mix priming coat over concrete/masonry/asbestos cement sheet/plastered surfaces including preparing the surface after thoroughly cleaning of oil,grease,dirt and other foreign matter and sand papering including cost of materials, labour, complete as per specifications. (Page no.121 / It no.15.80)                                                                                                                                                   |               |     |        |      |                       |        |        |           |
| for Kerb Stones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm           |     |        |      |                       |        |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | 1   | 158.10 |      | 0.40                  | 63.24  |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |     |        |      |                       | 63.24  | 27.56  | 1742.89   |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 26.00         |     |        |      |                       |        |        |           |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.56          |     |        |      |                       |        |        |           |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>27.56</b>  |     |        |      |                       |        |        |           |
| 9 KSRB 800-1.Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.182 & Item No.24.1)                                                                                                                                                                                                                                                                        |               |     |        |      |                       |        |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm           |     |        |      |                       |        |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |     |        |      | Qty Vide Item No.8    | 63.24  | 63.60  | 4022.06   |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60.00         |     |        |      |                       |        |        |           |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.60          |     |        |      |                       |        |        |           |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>63.60</b>  |     |        |      |                       |        |        |           |
| <b>ASPHALTING WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |     |        |      |                       |        |        |           |
| 10 KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1 ) |               |     |        |      |                       |        |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum           |     |        |      |                       |        |        |           |
| Maruthinagara 24th A Cross road                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | 1   | 62.00  | 5.50 | 0.45                  | 153.45 |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |     |        |      |                       | 153.45 | 166.42 | 25537.00  |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 157.00        |     |        |      |                       |        |        |           |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9.42          |     |        |      |                       |        |        |           |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>166.42</b> |     |        |      |                       |        |        |           |
| 11 KSRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)                                                                                                                                                                   |               |     |        |      |                       |        |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum           |     |        |      |                       |        |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |     |        |      | Qty Vide Item No.1+10 | 378.25 | 100.00 | 37825.00  |
| Average Weight of Earth 1.28 Tonne/Km                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |     |        |      |                       |        |        |           |
| Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32.00         |     |        |      |                       |        |        |           |
| Add loading and unloading Item No 17.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 68.00         |     |        |      |                       |        |        |           |
| <b>Tptal</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>100.00</b> |     |        |      |                       |        |        |           |

| Sl. No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit    | No. | L     | B    | D     | Qty.   | Rate    | Amount    |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-------|------|-------|--------|---------|-----------|
| 12      | KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)                                                                                    | Cum     |     |       |      |       |        |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | 1   | 62.00 | 5.50 | 0.15  | 51.15  |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |       |      |       | 51.15  | 1665.26 | 85178.00  |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1571.00 |     |       |      |       |        |         |           |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 94.26   |     |       |      |       |        |         |           |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1665.26 |     |       |      |       |        |         |           |
| 13      | KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)                                             | Cum     |     |       |      |       |        |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | 1   | 62.00 | 5.50 | 0.225 | 76.73  |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |       |      |       | 76.73  | 1768.08 | 135656.00 |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1668.00 |     |       |      |       |        |         |           |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.08  |     |       |      |       |        |         |           |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1768.08 |     |       |      |       |        |         |           |
| 14      | Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6 )                                                                                                                                                                                                                                                           | Cum     |     |       |      |       |        |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | 1   | 62.00 | 5.50 |       | 341.00 |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |       |      |       | 341.00 | 27.56   | 9398.00   |
|         | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26.00   |     |       |      |       |        |         |           |
|         | Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.56    |     |       |      |       |        |         |           |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27.56   |     |       |      |       |        |         |           |
| 15      | KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6) | Cum     |     |       |      |       |        |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | 1   | 62.00 | 5.50 | 0.050 | 17.05  |         |           |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |       |      |       | 17.05  | 6435.26 | 109721.00 |

| Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit           | No. | L     | B    | D     | Qty.   | Rate    | Amount            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|-------|------|-------|--------|---------|-------------------|
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6071.00        |     |       |      |       | 6.88   | 6435.26 | 44242.00          |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 364.26         |     |       |      |       | 17.05  |         | 109721.12         |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>6435.26</b> |     |       |      |       |        |         |                   |
| KSRRB 500-7: Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black topped surface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications. (P.No.160 & I.No.21.7)                                                                                                                                                                                          |                |     |       |      |       |        |         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm            |     |       |      |       |        |         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 1   | 25.00 | 5.50 |       | 137.50 |         |                   |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14.00          |     |       |      |       | 137.50 | 14.84   | 2041.00           |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.84           |     |       |      |       | 341.00 |         | 5060.44           |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>14.84</b>   |     |       |      |       |        |         |                   |
| KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6) |                |     |       |      |       |        |         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cum            |     |       |      |       |        |         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 1   | 25.00 | 5.50 | 0.040 | 5.50   |         |                   |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6859.00        |     |       |      |       | 5.50   | 7270.54 | 39988.00          |
| Area Weightage @ 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 411.54         |     |       |      |       | 11.25  |         | 81793.5           |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>7270.54</b> |     |       |      |       |        |         |                   |
| Miscellaneous and unforeseen charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LS             |     |       |      |       |        |         | 328               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |     |       |      |       |        |         | 437.46            |
| <b>Grand Total Amount</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |       |      |       |        |         | <b>2000000.00</b> |
| <b>( Rupees Twenty Lakhs Only )</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |       |      |       |        |         |                   |

The site has been inspected and the work is found to be necessary.  
The rates adopted are as per PW,P IWTD SR of 2016-17  
The provisions were made in this estimate are necessary and adequate.  
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer  
Ward No.01

Assistant Executive Engineer  
Yelahanka Sub-Division  
B.B.M.P

**Administrative Approval**

Accorded For 20.00 lakhs.

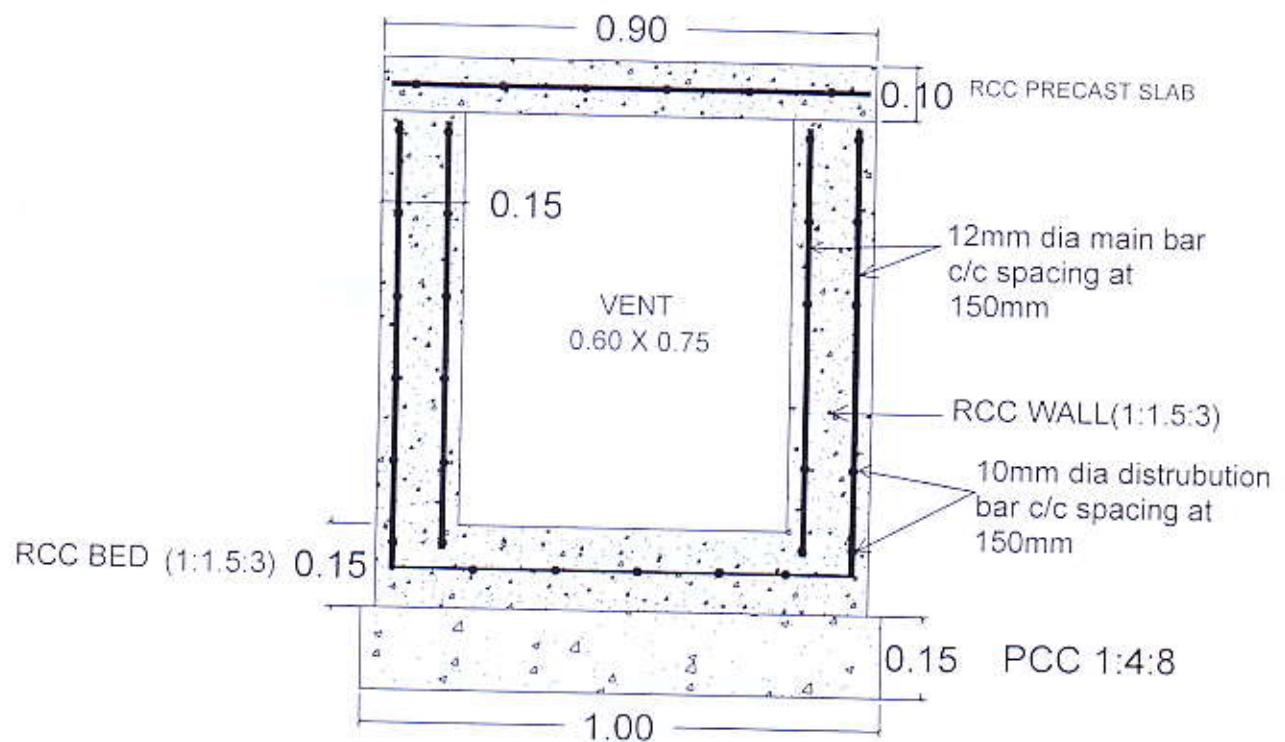
Head of A/C..... P1771

CER NO :..... 213. Dt: 27.02.17

TA CE (YNK)

Executive Engineer  
Yelahanka Division  
B.B.M.P

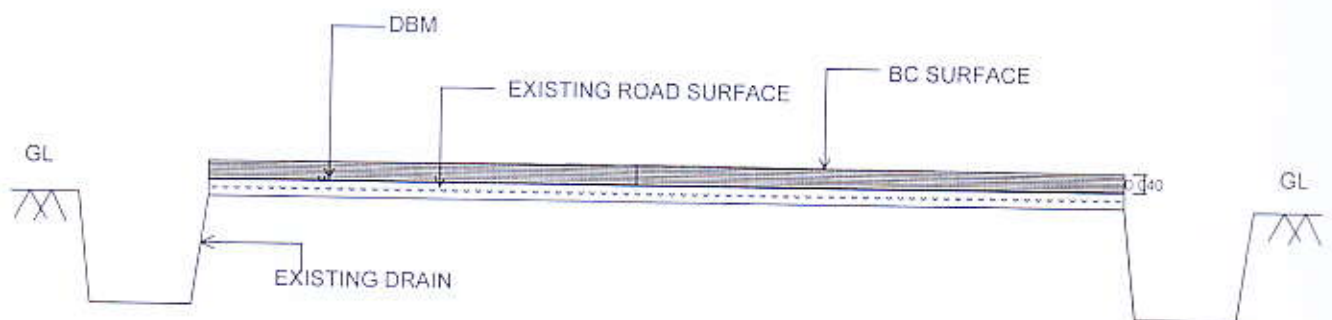
**NAME OF WORK :** IMPROVEMENTS AND ASPHALTING TO ROADS AT  
VENKATALA SERVICE STATION ROAD AND SURROUNDING  
AREAS IN WARD NO.01 OF YELAHANKA SUB-DIVISION



CROSS SECTION OF RCC DRAIN

*[Handwritten signature]*

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AT VENKATALA  
SERVICE STATION ROAD AND SURROUNDING AREAS IN WARD NO.01  
OF YELAHANKA SUB-DIVISION

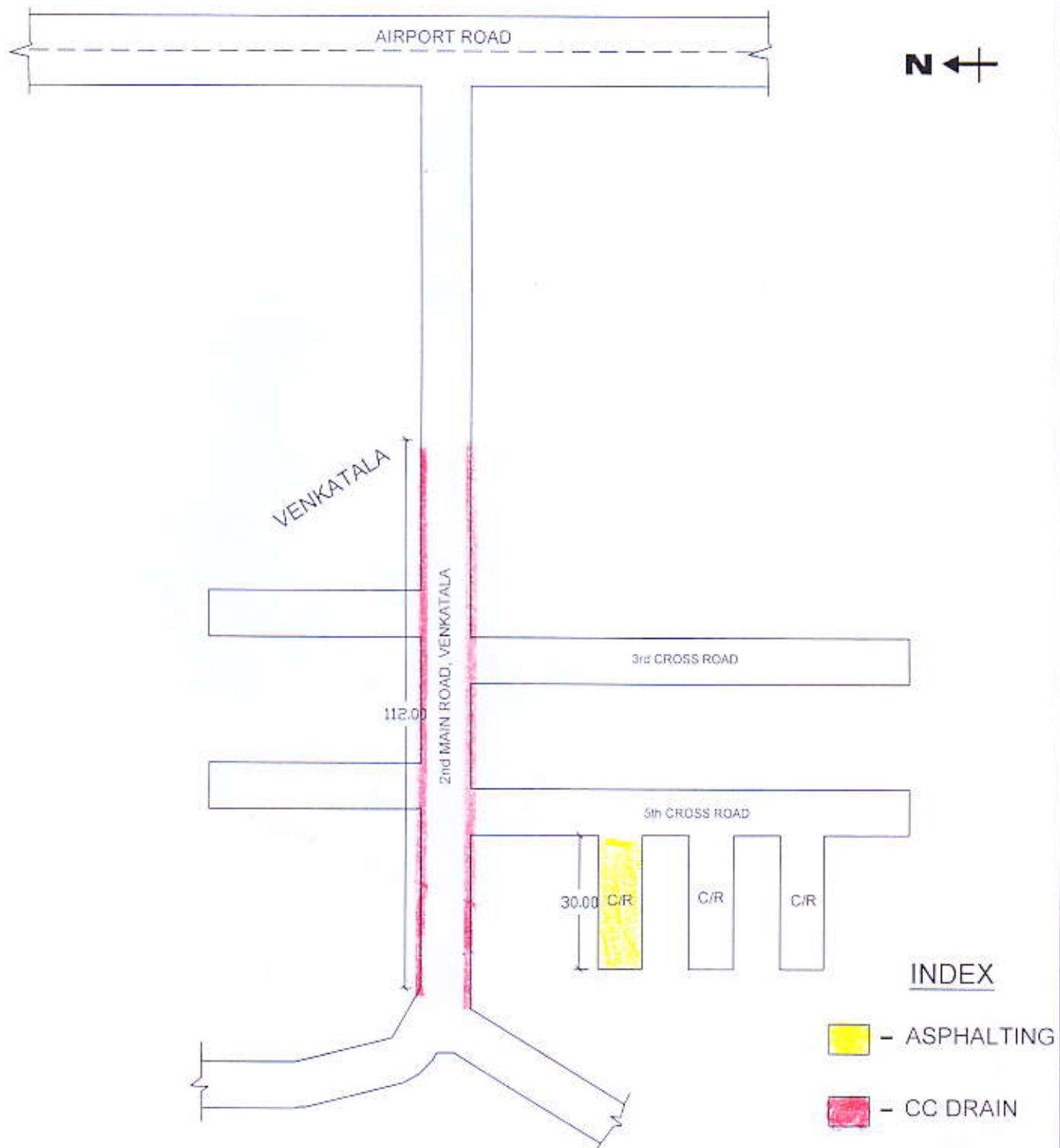


TYPICAL CROSS SECTION OF ASPHALT ROAD

*[Handwritten signature]*

NAME OF WORK: IMPROVEMENTS AND ASPHALTING TO ROADS AT VENKATALA SERVICE  
STATION ROAD AND SURROUNDING AREAS IN WARD NO.01 OF  
YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



Assistant Engineer  
Ward No.01  
B.B.M.P

Assistant Executive Engineer  
Yelahanka Sub-Division  
B.B.M.P

YELAHANKA ZONE  
WARD 1-KEMPEGOWDA WARD

©



ಸಹಾಯಕ ಅಭಿಯಂತರರು  
ಮಹಾನಗರ ಪಾಲಿಕೆ ವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ

AREA 12.7 Sq Km

| Category                          | No of Properties | Area  |
|-----------------------------------|------------------|-------|
| Commercial                        | 125              | 1.25  |
| Residential                       | 125              | 1.25  |
| Public                            | 125              | 1.25  |
| Open Space                        | 125              | 1.25  |
| Park                              | 125              | 1.25  |
| Industrial/Commercial             | 125              | 1.25  |
| Residential                       | 125              | 1.25  |
| Under Construction                | 125              | 1.25  |
| Public                            | 125              | 1.25  |
| Area                              | 125              | 1.25  |
| No of Roads                       |                  | 50    |
| Major Road                        | 125              | 1.25  |
| Minor Road                        | 125              | 1.25  |
| Total Length of Roads (in Meters) |                  | 10000 |
| Major Road                        | 125              | 1.25  |
| Minor Road                        | 125              | 1.25  |